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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,324	01/04/2002	H. William Bosch	029318-0107	2223
31049 7	590 06/20/2006		EXAMINER	
ELAN DRUG DELIVERY, INC.			HAGHIGHATIAN, MINA	
C/O FOLEY & LARDNER LLP 3000 K STREET, N.W.		ART UNIT	PAPER NUMBER	
SUITE 500 WASHINGTON, DC 20007-5109			1616	
			DATE MAILED: 06/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antique Comment	10/035,324	BOSCH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mina Haghighatian	1616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 Ap	oril 2006					
,	action is non-final.					
<i>,</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-34</u> is/are pending in the application.						
4a) Of the above claim(s) <u>15-34</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·				

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/11/06 has been entered.

Receipt is also acknowledged of amendments and Remarks filed on 02/28/06. Accordingly claims 1-34 remain pending, of which claims 15-34 are withdrawn. Thus claims 1-14 are under examination.

### Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedmann et al (5,747,001) in view of Tabibi et al (6,682,758).

Wiedmann et al teach aerosols containing droplets of an aqueous dispersion of nanoparticles of insoluble beclomethasone particles having a surface modifier on the surface thereof. A suitable surfactant is tyloxapol (see col. 4, lines 49-60), the particles are preferably less than 400 nm in size, or more preferably less than 250 and most

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preferably less than 100 nm in size (see col. 6, lines 8-15 and col. 10, lines 25-35). The process of making such nanoparticles includes attrition and filteration (see col. 7, lines 18-21). Wiedmann lacks teachings on sterile filteration.

Tabibi et al teach water-insoluble drug delivery systems comprising a water-insoluble drug, a water-miscible organic solvent and a surfactant. Surfactants form vesicles having an average particle size of about 50-200 nm (see col. 3, lines 30-36 and col. 7, lines 30-35). The formulations can be used as an aerosol (see col. 4, lines 6-10). The said formulations are sterilized by passing each solution through a sterilizing membrane filter. The filter is a 0.22 micron pore rated sterile filter (see col. 7, lines 45-49 and col. 8, lines 1-16).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have implemented the sterile filteration as taught by Tabibi in the formulations and process of Wiedmann, since Wiedmann teaches filteration of a nanoparticles of beclomethasone and tyloxapol. In other words, one of ordinary skill in the art would have been motivated to implement sterile filteration of Tabibi instead of simple filteration of Wiedmann because sterilization of formulations is beneficial to recipients.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedmann et al (5,747,001) in view of Osbakken et al (2002/0061281).

Wiedmann et al teach aerosols containing droplets of an aqueous dispersion of nanoparticles of insoluble beclomethasone particles having a surface modifier on the surface thereof. A suitable surfactant is tyloxapol (see col. 4, lines 49-60), the particles are preferably less than 400 nm in size, or more preferably less than 250 nm and most preferably less than 100 nm in size (see col. 6, lines 8-15 and col. 10, lines 25-35). The process of making such nanoparticles includes attrition and filteration (see col. 7, lines 18-21). Wiedmann lacks teachings on sterile filteration.

Osbakken teaches aerosolized anti-infectives and anti-inflammatories for the treatment of sinusitis. The process of preparing the formulations includes weighing and measuring each ingredient, adding the ingredients together, mixing with dilutents such as sterile water and filtering with a coarse filter and then a fine filter such as a 0.22 micron filter (see [0104], [0171], [0176], [0198] and [0199]). The steroidal anti-inflammatories include beclomethasone and budesonide (see [0139]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have implemented the sterile filteration as taught by Osbakken et al in the formulations and process of Wiedmann, since Wiedmann teaches filteration of nanoparticles of beclomethasone and tyloxapol. In other words, one of ordinary skill in the art would have been motivated to implement sterile filteration as taught by Osbakken et al instead of simple filteration of Wiedmann et al because sterilization of formulations is beneficial to recipients.

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Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedmann et al (5,747,001) in view of Saidi et al (6,241,969).

Wiedmann et al teach aerosols containing droplets of an aqueous dispersion of nanoparticles of insoluble beclomethasone particles having a surface modifier on the surface thereof. A suitable surfactant is tyloxapol (see col. 4, lines 49-60), the particles are preferably less than 400 nm in size, or more preferably less than 250 nm and most preferably less than 100 nm in size (see col. 6, lines 8-15 and col. 10, lines 25-35). The process of making such nanoparticles includes attrition and filteration (see col. 7, lines 18-21). Wiedmann lacks teachings on sterile filteration.

Saidi et al teaches aqueous compositions comprising corticosteroids and a surfactant in a delivery vehicle for pulmonary or nasal administration. The suitable steroids include beclomethasone dipropionate (see col. 6, lines 8-30). Examples 1-5 teach the process of making the said formulations which includes sterilizing the formulation by passing the diluted corticosteroid composition through a 0.22 micron sterile filter.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have implemented the sterile filteration as taught by Saidi et al in the formulations and process of Wiedmann, since Wiedmann teaches filteration of

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nanoparticles of beclomethasone and tyloxapol. In other words, one of ordinary skill in the art would have been motivated to implement sterile filteration as taught by Saidi et al instead of simple filteration of Wiedmann et al because sterilization of formulations is beneficial to recipients.

## Response to Arguments

Applicant's arguments with respect to claims 1-14 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mina Haghighatian whose telephone number is 571-272-0615. The examiner can normally be reached on core office hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mina Haghighatian June 07, 2006

Johann Richter, Ph.D. Esq. Supervisory Patent Examiner Technology Center 1600